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Medicis Pharmaceutical C	Corporation		Nycomed U.S			
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(12) United States Patent Gans et al.

(10) Patent No.: (45) Date of Patent: US 6,765,001 B2 Jul. 20, 2004

(54) COMPOSITIONS AND METHODS FOR ENHANCING CORTICOSTEROID DELIVERY

> Inventors: Eugene H. Gana, Westport, CT (US); Mitchell S. Wortzman, Scottsdale, AZ

(73) Assignce: Medicis Pharmaceutical Corporation, Scottsdale, AZ (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

. (21) Appl. No.: 10/037,360

(75)

(56)

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(51) Int. Cl. A61K 31/58; A61K 31/56; A61K 47/00; A61K 9/00

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Primary Examiner—Shengjun Wang (74) Attorney, Agent, or Firm—William J. McNichol, Jr.; Maryellen Peebery; Reed Smith LLP

(57) ABSTRACT

The present invention comprises a composition, method of enhancing potency and method of delivering corticosteroids in a vehicle comprising at least two penetration enhances; and solvents and emissifiers. The propylene glycol and penetration enhancers are present in ratio to the total of the propylene glycol, penetration enhancers, and solvents and emulsifiers of at least about 0.70.

17 Claims, No Drawings

(12) United States Patent

(54) COMPOSITIONS AND METHODS FOR ENHANCING CORTICOSTEROID DELIVERY

(75) Inventors: Eugene H. Gans, Westport, CT (US); Mitchell S. Wortzmen, Scottsdale, AZ (US)

- (73) Assignce: Medicis Pheranscentical Corporation, Scottsdale, AZ (US)
- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 382 days.
- (21) Appl. No.: 18/407,354
- (22) Filed: Apr. 4, 2003

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Related U.S. Application Data

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(51) Int. Cl.

A6IK 31/56 (2006.01)

A6IK 47/44 (2006.01)

 (10) Patent No.: US 7,217,422 B2 (45) Date of Patent: May 15, 2007

See application file for complete search history.

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Primary Examiner—San-Ming Hul (74) Attorney, Agent, or Firm—William I. McNichol, Jr.; Maryellen Feelicry Hank; Reed Smith LLP

(57) ABSTRACT

The present invention comprises a composition, method of enhancing potency and method of delivering corticosteroids in a vehicle comprising at least two penetration enhancers, and solvents and emulsifiers. The propylene glycol and penetration enhancers are present in ratio to the total of the propylene glycol, penetration enhancers, and solvents and emulsifiers of at least about 0.70.

16 Claims, No Drawlings



(12) United States Patent Gans et al.

- (54) COMPOSITIONS AND METHODS FOR ENBANCING CORTICOSTEROID DELIVERY
- (75) Inventors: Eugene II. Gans, Westport, CI (US); Mitchell S. Wartzman, Scottsdale, AZ
- (73) Assignee: Medicis Pharmacoutical Corporation, Scottsdale, AZ (US)

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- (74) Miorrey, Agent, or Firm—William J. McNichol, Jr.; Maryellen Feedicty Hank; Reed Smith LLP Primary Examiner-San-Ming Hul · oited by examiner
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